



Training Course on HVAC System & Product Updates

General Information

Date : 9, 16, 23 & 30 October 2017 (Monday)

Time: 7.30pm – 9.30pm

Venue: Conference Hall, 4th Floor, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong

Course Objectives

The course is designed to broaden knowledge of engineers in relation to Building Services Systems and is useful for young engineers and practitioners who want to refresh / acquire knowledge in the design, installation and maintenance of these HVAC systems.

Time Table

Session	Date	Topic	Name of Speaker
1	9 Oct 2017 (Monday)	Chilled Beam	Ir Prof Francis YIK Mr. Edmond YEUNG
2	16 Oct 2017 (Monday)	Fan & AHU Selection	Mr. Tony NG
3	23 Oct 2017 (Monday)	Pump & Valve Selection	Mr. John MA Mr. David KWONG
4	30 Oct 2017 (Monday)	Retro- commissioning	Ir Daniel CHONG

Medium of Instruction

Cantonese, supplemented with course materials in English

Target Participants

Engineers, surveyors, architects, project managers and management staff from the construction field



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Course Fee

Fee	Per session of any topic	Full course of 4 sessions
Early Bird on or before 8 Sept 2017	HK\$250	HK\$800
Registration on and after 9 Sept 2017	HK\$300	HK\$1000

CPD Certificate

A CPD certificate (with 2-hr) will be issued to the participant after the course.

A full course certificate will be issued to those who have applied for full course.

Registration

Please register online through the [embedd link](#)

Or the QRcode beside.

Registration/enrollment will be on a first-come-first-served basis
(*priority will be given to members*).



Payment Method

After online registration, please make the cheque payable to **"The Hong Kong Air Conditioning and Refrigeration Association Limited"** and Attention to **"Ms. Aris Chiu (ACRA-ST 2017)"** to the following address: **"ACRA, Room 1801, 18/F., Tung Wai Commercial Building, 109-111 Gloucester Road, Wanchai, Hong Kong."** *Please state the applicant's name with contact phone no. and mark "ACRA-ST 2017" at the back of the cheque.*

Key Speakers

Ir Prof Francis YIK

Once graduated from the University of Hong Kong with a mechanical engineering degree, Francis YIK practised as a consulting building services engineer until he joined the Department of Building Services Engineering of the Hong Kong Polytechnic University. He acquired his PhD degree in 1993 and full professorship in 1999. In recognition of his research achievements, Francis was awarded a



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Duften Silver Medal by CIBSE in 1997 and a higher doctorate degree of Doctor of Engineering by the Northumbria University in 2009. He left the academia in 2013 and joined the ATAL Engineering Group as a Technical Director. Although he is retired now, he is still serving ATAL as a Technical Consultant on part-time basis.

Mr. Edmond YEUNG

Mr. Edmond YEUNG is currently Senior Sales Manager of ATAL Building Services Engineering Ltd. He has over 10 years' experience in building services equipment and he is specialized in delivering efficient HVAC solutions to his clients. He joined as a key player in few chilled beam/ceiling projects in HK. His expert knowledge in chilled beam/ceiling systems is recognised by the industry and he has presented the similar subject to the HKIE and HKGBC. He graduated from HK PolyU with a mechanical engineering degree. He is a CEng and MHKIE currently.

Mr. Tony NG

Mr. Tony NG has over 20 years experience in HVAC industry specializing in various air side equipment. He has worked extensively in different Integrated AHU or EC AHU design in various projects. He currently holds the position of Assistant Director at Welcome Air-Tech. Ltd.

Mr. John MA

Mr. John MA has over twenty-five years in dealing with pump business and being a specialist in HVAC pump application and water-side system. He acquired his academic qualification from HK Polytechnic before joining JEC.

Mr. David KWONG

Mr. David KWONG has about twenty years experience in engineering industry including ten years in dealing with valve business. He acquired his academic qualification from HK Polytechnic and UK University for both technical and commercial background.

Ir Daniel CHONG

Ir Daniel CHONG joined Labour Department's 4 years apprenticeship training scheme in 1977 and was worked as a technician at the early stage of his career development. He is now the Managing Director of ClydeMan Group of Companies engaged in Building Services contracting, maintenance and commissioning business. He is actively involved in the industry and community services and was the Past Chairman of HKIE – Building Services Division and the Past President of ACRA. Presently, Ir CHONG is a member of various governments' board panels and is the Chairman of the Publication Sub-committee of The Hong Kong Federation of Electrical & Mechanical Contractors Limited (FEMC). He is a RPE, FHKIE, REA, CBCP and RSC(V).



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Course Contents

Session 1- Chilled Beam by Ir Prof Francis YIK and Mr. Edmond YEUNG (9 October 2017, Monday)

Chilled Beams can be valuable additions to HVAC systems designed to not just meet basic code requirements but achieve greater energy efficiency.

Session 2 Fan & AHU Selection by Mr. Tony NG (16 October 2017, Monday)

- Basic Principle
 - Common Terms
 - Fan Laws
 - Functions of fan and AHU in HVAC systems
- Fan Selection
 - Different types of fan
 - Optimizing fan selection based on application
- AHU Selection
 - Common types of AHU
 - Different components of AHU
 - Optimizing AHU selection
 - Filter Classes
- Common Misconception in industry

Session 3-Pump & Valve Selection by Mr. John MA and Mr. David KWONG (23 October 2017, Monday)

Fundamental knowledge of Practical Pump and Valve selection and application including

- Common pump types for Local Building Services Market
- Pump Characteristic and Selection
- Efficiency and Energy Saving in Pumping System
- Cavitation & Pump Operation
- General Valve Type and Application
- Balancing Valve in Heating/Cooling System

Session 4 -Retro- commissioning by Ir Daniel CHONG (30 October 2017, Monday)

- Background and Objectives of Retro-commissioning
- Elements related to EMSD's Building Energy efficiency Ordinance
- Overview of The Scope Of Work
- Execution And Recommendations
- Trend In Time



Remarks

- 1) The early bird registration is subject to the receiving date of cheque with full payment registered.
- 2) The official receipt will be issued only by request (Please state at the back of the cheque 'receipt requested')
- 3) Registration fee(s) being paid is not refundable and not transferable.
- 4) No CPD certificate will be awarded to individuals who arrive after 7:30pm (more than half hour late) or leave earlier than 9:00pm (more than half hour early).
- 5) If the Typhoon Signal No. 8 or above / Black Rainstorm Warning is in force during class, or Typhoon Signal No. 8 or above is hoisted within 2 hours before the class commences, any class already in progress will be dismissed immediately and imminent classes will be cancelled. As such, a make-up class will be arranged.
- 6) The organizer reserves the right to amend the terms and conditions without prior notice.
- 7) In case of any disputes, the decisions of the organizer shall be final and conclusive.

Enquiries

Please contact ACRA: Ms Aris Chiu at Tel: 2598 0101 or e-mail: info@acra.org.hk

Organizing Committee Members

Trane Hong Kong
ATAL Engineering Limited
Welcome Air-Tech Ltd.
The Jardine Engineering Corporation Limited
Clydeman Engineering Limited
Daikin Airconditioning (Hong Kong) Limited
Fook Loong (HK) Limited
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